Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Speed Machine

Directions: You will determine the average speed of several different vehicles, then figure out exactly *how long* it takes to drive 60 miles. To calculate speed, use the speed formula:

**Speed = Distance /Time**

To calculate time (in minutes) it takes to drive 60 miles, you must first figure out time in hours, then convert to minutes. Use the following formula to help:

=

**=**

60 minutes

**x**

**=**

**÷**

60 miles

**Speed (mph)**

1. NASCAR fans love race day when they get a chance to cheer on their favorite drivers. If a driver is able to travel 600 miles in 3 hours, what was his average speed? Show your work!

Given the data above, how long would it take for this driver to travel 60 miles? Show your work!

1. The fastest car on Earth, a British-made Thrust SSC, would win every NASCAR race in the US. If it takes 0.5 hours (30 minutes) to travel 380 miles, what is its speed? Show your work!

Given the data above, how long would it take for this driver to travel 60 miles? Show your work!

1. The fastest train on Earth, the TVG from France, can travel at faster speeds than trains in the US. During a speed test, the train traveled 800 miles in 2.5 hours. What is the speed? Show your work!

Given the data above, how long would it take for this driver to travel 60 miles? Show your work!

1. The Spirit of Australia is a hydroplane boat that has made speed records by traveling 239 miles in 0.75 hours (45 minutes). What is the record breaking speed? Show your work!

Given the data above, how long would it take for this boat to travel 60 miles? Show your work!

1. The fastest plane ever made, the Lockheed SR71, was able to travel 2200 miles per hour. Based on this speed, how far could it travel in:

A. 2 hours? B. 3 hours? C. 5 hours?

(Show your work for each calculation)

1. Which machine from this activity is the fastest? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_